

Safety Data Sheet (SDS)

Reviewed on 3/23/2018

CV-Tile & Filter

Section 1: Identification

Product/Chemical Name: CV-Tile & Filter Cleaner**Chemical Formula:** Proprietary Enzyme Formula**CAS Number:** N/A.**Other Designations:** None**General Use:** Digestion of non-living organics and oils from water & filter elements, helps break down scale.

- **Manufacturer:**

Pure Planet Science & Technologies Inc. dba Orenda Technologies

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Section 2: Hazard(s) Identification

Global Harmonized System (GHS) Classification: Health	Environmental	Physical
Eye Irritation – Category 2A Skin Irritation – Category 4	Acute Toxicity – None*	None



Label Pictogram:

Signal Word: Warning

Risk Phrases: R36/38: Irritating to eyes and skin**Safety Phrases:** S24/S25: Avoid contact with skin and eyes S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

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Prevention: DO NOT get in eyes, on skin or clothing. DO NOT mix with bleach or other household chemicals harmful; fumes may result. DO NOT ingest. DO NOT breathe vapor or mist. Use in well ventilated areas. Keep container closed when not in use. KEEP OUT OF REACH OF CHILDREN

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. Wear eye protection/face protection. Wash skin thoroughly after handling. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. Wear protective gloves. Call a POISON CENTER or doctor/physician if you feel unwell. Avoid breathing fumes.

Storage: Store in original containers in a secure area away from children and pets.

Disposal: None

Section 3: Composition/Information on Ingredients

- CAS Number: N/A
- Enzyme Filter Cleaner is an aqueous solution comprised of a mixture of enzymes as the primary mechanism for digesting non-living organics and oils from water. The exact formulation is proprietary and a trade secret.

Composition Comments:

The exact percentages (concentration) of mixture has been withheld as a trade secret in accordance to paragraph (i) of §1910.1200

Section 4: First-Aid Measures

- Description of First Aid Measures:

Inhalation: In the improbable event of product inhalation, remove the affected individual to fresh air and provide fresh air or artificial respiration as required. Obtain medical attention.

Eye Contact: Flush thoroughly with water for five minutes and obtain medical attention if irritation of eye membranes persists.

Skin Contact: Wash contacted areas with soap and water, apply emollient skin cream to minimize dryness and seek medical attention if irritation persists.

Ingestion: Drink several glasses of water. Obtain medical attention.

After first aid, get appropriate in-plant, paramedic, or community medical support if exposure symptoms persist.

Note to Physicians: Under normal use and human exposure conditions, the product is considered nontoxic and nonhazardous.

Special Precautions/Procedures: None.

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Ingestion: With substantial and/or long term ingestion of the as-received product, possible delayed blood clotting, sensitivity to heat, skin itching, increased odor and taste awareness, and liver damage.

Carcinogenicity: IARC, NTP, and OSHA do not list CV600 Enzyme Water Cleaner or its components as carcinogens.

Medical Conditions Aggravated by Long-Term Exposure: None known.

Chronic Effects: There are no known chronic effects except as indicated above under Acute Effects.

Section 5: Fire-Fighting Measures

Flash Point: None.

Flash Point Method: N/A

Burning Rate: N/A

Autoignition Temperature: N/A

LEL: N/A

UEL: N/A

Flammability Classification: Nonflammable.

Extinguishing Media: N/A

Unusual Fire or Explosion Hazards: None.

Hazardous Combustion Products: Thermal oxidative decomposition of the product may release toxic fumes of hydrogen chloride and metal oxide.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

- **Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Section 6: Accidental Release Measures

Spill /Leak Procedures: Avoid contact with eye and skin

Small & Large Spills

Containment: For all spills, pick up mechanically and place in suitable container for disposal. Do not release into sewers or waterways.

Cleanup: After product recovery and removal, flush spill area with water to a sanitary sewer.

- **Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7: Handling and Storage

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Handling Precautions: Wear appropriate eye and glove protection to minimize personal exposure.

Storage Requirements: Do not store with oxidizing or acidic materials. Keep containers tightly sealed, store at temperatures below 120°F.

Regulatory Requirements: None established

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Ventilation: In the event of product misting, provide general or local exhaust ventilation systems to minimize airborne concentrations. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: If product misting occurs, follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. . If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment after use.

- **Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. **KEEP AWAY FROM CHILDREN.**

Section 9: Physical and Chemical Properties

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Physical State: Liquid
Appearance and Odor: Clear light amber with little or no odor.
Odor Threshold: Not determined.
Vapor Pressure: Not determined.
Vapor Density (Air=1): Not determined.
Formula Weight: N/A Density: 8.44 lbs/gal
Specific Gravity (H₂O=1, at 4 °C): 1.01
pH: 2.5 -3.5 Typical
Water Solubility: Completely soluble.
Other Solubilities: Insoluble in hydrocarbons.
Boiling Point: > 212°F.
Freezing Point: < 30°F.
Viscosity: Not determined.
Refractive Index: Not Determined.
Surface Tension: Not Determined.
% Volatile: Not Determined.
Evaporation Rate: Not Determined.

Section 10: Stability and Reactivity

Stability: Enzyme Filter Cleaner is stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: Hazardous polymerization cannot occur.
Chemical Incompatibilities: Do not store with oxidizers or acidic agents.
Conditions to Avoid: N/A
Hazardous Decomposition Products: Thermal oxidative decomposition of Enzyme Filter Cleaner can produce fumes of hydrogen chloride, and oxides of carbon, and nitrogen

Section 11: Toxicological Information

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Toxicity Data:**Eye Effects:** As received, irritation of eye membranes.**Skin Effects:** As received, irritating**Ingestion Effects:** See Potential Health**Acute Inhalation Effects:** Human, inhalation, T_{CLo}: Not established.**Acute Oral Effects:** Rat, oral, LD 50: Not Established**Chronic Effects:** None known.**Carcinogenicity:** None known.**Mutagenicity:** None known.**Teratogenicity:** None known.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Specific data not established. Under prescribed conditions of use, will not be toxic to mammalian, reptilian or piscine species.**Environmental Fate Environmental Transport:** Water or soil.**Environmental Degradation:** Not established.**Soil Absorption/Mobility:** Not established.

Section 13: Disposal Considerations (non-mandatory)

Disposal: Contact Orenda Technologies, your local supplier or a licensed contractor for detailed recommendations. Recovered spilled product may be disposed of by either or incineration. Follow applicable Federal, state, and local regulations.**Disposal Regulatory Requirements:** None.**Container Cleaning and Disposal:** Thoroughly clean empty containers with water and recycle or dispose of. Do not use empty containers for food storage.

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Section 14: Transport Information (non-mandatory)

DOT: Not Regulated
IATA: Not Regulated
IMDG: Not Regulated

Section 15: Regulatory Information (non-mandatory)

EPA Regulations:

STATE REGULATIONS:

Section 16: Other Information

Prepared by: Jarred Morgan
Preparation date: 3/23/2018

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Additional Hazard Rating Systems:None.

Disclaimer: The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.